AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

Claims 42-54 (canceled).

55. (new): A contents distributing apparatus, comprising

a data output device for outputting encoded data, and

a transmitting device for transmitting the encoded data

outputted from the data output device, wherein:

the data output device outputs data encoded by hierarchical encoding as the encoded data;

and

the transmitting device transmits at least a part of data of at least one layer among the

data encoded by the hierarchical encoding by different.

56. (new): The contents distributing apparatus as claimed in claim 55, wherein:

the data output device outputs the data encoded by the hierarchical encoding by

separating it to respective encoded data of each layer; and

the transmitting device transmits each of the encoded data individually by each layer.

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57. (new): The contents distributing apparatus as claimed in claim 55, wherein the

transmitting device transmits at least a part of referred-information encoded data of at least one

layer among the data encoded by the hierarchical encoding.

58. (new): The contents distributing apparatus as claimed in claim 55, wherein the

transmitting device transmits, among the data encoded by the hierarchical encoding: a) at least a

part of encoded data of one layer; and b) at least a part of referred-information encoded data of at

least one layer among remaining layers.

59. (original): The contents distributing apparatus as claimed in claim 55, wherein the

transmitting device transmits, among the data encoded by the hierarchical encoding: a) at least a

part of referred-information encoded data of one layer; and b) at least a part of encoded data of at

least one layer among remaining layers.

60. (new): The contents distributing apparatus as claimed in claim 55, wherein

the transmitting device comprises a transmission managing unit, wherein

the transmission managing unit controls quality and stability and/or confidentiality of

distribution contents on the contents distributing apparatus side through controlling at least one

of: number of the encoded data to be transmitted; hierarchy of the encoded data; distribution

target of a cipher key; encryption method; and degree of encryption.

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61. (new): The contents distributing apparatus as claimed in claim 60, wherein, when

performing data transmission of a plurality of pieces of encoded data with a time difference

provided therebetween, the transmission managing unit changes a compression rate of following

encoded data with respect to a compression rate of preceding encoded data with the time

difference.

62. (original): The contents distributing apparatus as claimed in claim 61, wherein the

transmission managing unit selects the compression rate in accordance with a distribution rate

and/or condition of a transmission line.

63. (new): The contents distributing apparatus as claimed in claim 60, wherein the

transmission managing unit selects whether or not to transmit at least a part of the encoded data

in accordance with the distribution rate and/or the condition of the transmission line.

64. (new): The contents distributing apparatus as claimed in claim 55, wherein the

transmitting device performs data transmission including encoded data of layers higher than

hierarchy of the data to be transmitted.

65. (new): The contents distributing apparatus as claimed in claim 55, wherein the

transmission managing unit controls the quality and stability of the distribution contents on a

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contents distributing side through controlling informing target of session information of a session

by which the encoded data is transmitted.

66. (new): The contents distributing apparatus as claimed in claim 55, comprising an

error correction code data transmitting device, wherein the error correction code data

transmitting device transmits error correction code data generated from data of at least one layer

among the encoded data.

67. (new): The contents distributing apparatus as claimed in claim 66, wherein the

transmitting device transmits encoded data and error correction code data individually by

different sessions.

68. (new): The contents distributing apparatus as claimed in claim 66, comprising a

multiplexed transmitting device, wherein the multiplexed transmitting device multiplexes the

encoded data and the error correction code data individually, and transmits the multiplexed data

by a same session.

69. (new): The contents distributing apparatus as claimed in claim 66, comprising the

multiplexed transmitting device, wherein the multiplexed transmitting device multiplexes a part

of encoded data and error correction code data, and transmits the multiplexed data and the data

without multiplexing by respective sessions.

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70. (new): The contents distributing apparatus as claimed in claim 66, comprising a

device for performing at least one of a routing priority control of per-session transmission lines

and a power control of radio transmission lines by a session which transmits at least one of

encoded data and error correction code data.

71. (new): A contents receiving apparatus, comprising:

a device for receiving encoded data transmitted by a plurality of sessions;

a device for receiving the encoded data received by the receiving device, and

discriminating and separating individual encoded data units therefrom; and

a reconstruction device which extracts encoded data received without a transmission error

and a fault from the discriminated and separated encoded data, and reconstructs and outputs

encoded data from the extracted encoded data.

72. (new): The contents receiving apparatus as claimed in claim 71, wherein, when

reconstructing the encoded data, the reconstruction device judges duplication of the encoded data

from identifiers given to encoded data transmission units.

73. (new): The contents receiving apparatus as claimed in claim 71, wherein the

reconstruction device judges a compression rate and/or hierarchy of the encoded data from at

least one of:

a) an encoded data receiving session determined in advance;

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b) encoded data identifying information determined in advance, which is given to the

encoded data transmission unit;

c) an encoded data receiving session informed by call connection processing; and

e) the encoded data identifying information which is given to the encoded data

transmission unit and informed by the call connection processing.

74. (new): The contents receiving apparatus as claimed in claim 71, comprising a report

transmitting unit for transmitting a receiving state report to inform condition of a transmission

line.

75. (new): The contents receiving apparatus as claimed in claim 71, wherein the

reconstruction device restores, by an error correction code, data in which an error or a fault is

generated, and reconstructs the data.

76. (new): The contents receiving apparatus as claimed in claim 71, wherein the

reconstruction device restores multiplexed data in which an error or a fault is generated by an

error correction code, and reconstructs the data.

77. (new): The contents receiving apparatus as claimed in claim 71, wherein the

reconstruction device restores data without multiplexing and multiplexed data in which an error

or a fault is generated by an error correction code and reconstructs the data.

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78. (new): The contents receiving apparatus as claimed in claim 71, comprising a device

for selecting whether or not to receive encoded data based on at least one of: error/loss rate of

the received data; power that can be used in the receiving apparatus; and a setting determined in

advance.

79. (new): A contents transmitting/receiving system, comprising a contents distributing

apparatus, a contents receiving apparatus, and a communication network for connecting the

contents distributing apparatus and the contents receiving apparatus, wherein:

the contents distributing apparatus comprises

a data output device for outputting encoded data, and

a transmitting device for transmitting at least a part of data of at least one layer among the

data encoded by the hierarchical encoding outputted from the data output device by different

sessions; and

the contents receiving apparatus comprises

a device for receiving encoded data transmitted by a plurality of sessions;

a device for receiving the encoded data received by the receiving device, and

discriminating and separating individual encoded data units therefrom; and

a reconstruction device which extracts encoded data received without a transmission error

and a fault from the discriminated and separated encoded data, and reconstructs and outputs

encoded data from the extracted encoded data.

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80. (new): A contents distributing method, comprising the steps of:

an output step of outputting encoded data; and

a transmission step of transmitting the encoded data outputted in the output step, wherein

data encoded by hierarchical encoding is outputted as the encoded data in the output step,

and

at least a part of data of at least one layer among the data encoded by the hierarchical

encoding is transmitted by different sessions in the transmission step.

81. (new): The contents distributing method as claimed in claim 80, wherein

in the output step, the data encoded by the hierarchical encoding is separated to

respective encoded data of each layer to be outputted; and

in the transmission step, each of the encoded data is transmitted by each layer.

82. (new): The contents distributing method as claimed in claim 80, wherein, in the

transmission step, there is transmitted at least a part of referred-information encoded data of at

least one layer among the data encoded by the hierarchical encoding.

83. (new): The contents distributing method as claimed in claim 80, wherein, in the

transmission step, among the data encoded by the hierarchical encoding, there is transmitted: a)

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at least a part of encoded data of a first layer; and b) at least a part of referred-information

encoded data of at least one layer among remaining layers.

84. (original): The contents distributing method as claimed in claim 80, wherein, in the

transmission step, among the data encoded by the hierarchical encoding, there is transmitted: a)

at least a part of referred-information encoded data of a first layer; and b) at least a part of

encoded data of at least one layer among remaining layers.

85. (new): The contents distributing method as claimed in claim 80, wherein quality and

stability and/or confidentiality of distribution contents is controlled on the contents distributing

apparatus side through controlling, on the contents distributing side, number of the encoded data

to be transmitted, hierarchy of the encoded data, distribution target of a cipher key and/or

encryption method and/or degree of encryption.

86. (new): The contents distributing method as claimed in claim 85, wherein, when

performing data transmission of a plurality of pieces of encoded data with a time difference

provided therebetween, a compression rate of following encoded data is changed with respect to

a compression rate of preceding encoded data with the time difference.

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87. (new): The contents distributing method as claimed in claim 86, wherein the

compression rate is selected in accordance with a distribution rate and/or condition of a

transmission line.

88. (new): The contents distributing method as claimed in claim 80, wherein data

transmission is performed including encoded data of layers higher than hierarchy of the data to

be transmitted.

89. (new): The contents distributing method as claimed in claim 88, wherein the quality

and stability of the distribution contents is controlled on a contents distributing side through

controlling informing target of session information of a session by which the encoded data is

transmitted.

90. (new): The contents distributing method as claimed in claim 80, wherein the output

step comprises at least one of the steps of:

(a) an input step of first to N-th encoded data;

(b) an input step of encoded data, and a generating step of the first to N-th encoded data

from data of at least one layer among the encoded data inputted in the input step;

(c) an input step of a first encoded data, and a generating step of second to N-th encoded

data from data of at least one layer of the first encoded data inputted in the input step;

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(d) an encoding step of encoding an inputted signal into the first to N-th encoded data;

and

(e) an encoding step of encoding the inputted signal into the first encoded data, and a

generating step of the second to N-th encoded data from data of at least one layer of the first

encoded data inputted in the input step.

91. (new): The contents distributing method as claimed in claim 90, wherein, (N+1)-th

encoded data is outputted in addition to the N-th encoded data.

92. (new): The contents distributing method as claimed in claim 91, wherein identifiers

for identifying data are given to the first to (N+1)-th encoded data.

93. (new): The contents distributing method as claimed in claim 91, wherein each of the

first to (N+1)-th encoded data is transmitted by a different session.

94. (new): The contents distributing method as claimed in claim 91, wherein the first to

(N+1)-th encoded data are multiplexed to be transmitted.

95. (new): The contents distributing method as claimed in claim 91, wherein, among the

first to (N+1)-th encoded data, at least two pieces of encoded data are multiplexed, and the

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multiplexed data and remaining encoded data without multiplexing are transmitted, respectively,

by different sessions.

96. (new): The contents distributing method as claimed in claim 90, wherein a contents

distributing side controls an informing target of session information of a session by which the

encoded data is transmitted.

97. (new): The contents distributing method as claimed in claim 91, wherein the first to

(N+1)-th encoded data are distributed with a time difference provided therebetween.

98. (new): The contents distributing method as claimed in claim 97, wherein the time

difference is set in accordance with condition of a transmission line and/or an encoding

compression rate and/or a distribution rate and/or a rule determined in advance.

99. (new): A contents receiving method, comprising the steps of:

a receiving step of receiving encoded data transmitted by a plurality of sessions;

a step of receiving the encoded data received in the receiving step, and discriminating and

separating individual encoded data units therefrom; and

a reconstruction step of extracting encoded data received without a transmission error and

a fault from the discriminated and separated encoded data, and reconstructing and outputting

encoded data from the extracted encoded data.

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100. (new): The contents receiving method as claimed in claim 90, wherein, when

reconstructing the encoded data, duplication of the encoded data is judged from identifiers given

to encoded data transmission units.

101. (new): The contents receiving method as claimed in claim 99, wherein a

compression rate and/or hierarchy of the encoded data is judged from at least one of:

a) an encoded data receiving session determined in advance;

b) encoded data identifying information determined in advance, which is given to the

encoded data transmission unit;

c) an encoded data receiving session informed by call connection processing; and

e) the encoded data identifying information which is given to the encoded data

transmission unit and informed by the call connection processing.

102. (new): The contents receiving method as claimed in claim 99, wherein a receiving

state report is transmitted for informing condition of a transmission line.

103. (new): The contents receiving method as claimed in claim 99, wherein, in the

receiving step, the encoded data is received by securing a buffer size determined by at least one

of:

(a) a receiving buffer size determined in advance;

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(b) a buffer size informed by call connection processing; and

(c) a buffer size calculated based on a contents distributing rate and time-difference

setting information, which is set in advance and/or informed by call connection.

104. (new): A contents transmitting/receiving method, comprising the steps of:

an output step of outputting data encoded by hierarchical encoding;

a transmission step of transmitting at least a part of data of at least one layer among the

data encoded by the hierarchical encoding by different sessions;

a receiving step of receiving encoded data transmitted by a plurality of sessions;

a step of discriminating and separating individual encoded data units from the received

encoded data; and

a reconstruction step of extracting encoded data received without a transmission error and

a fault from the discriminated and separated encoded data, and reconstructing and outputting the

extracted encoded data.